

Application No.: 09/917,700

Docket No.: 21994-00026-US

AMENDMENTS TO THE SPECIFICATION

Page 1, paragraph 3 should read:

The information of which to be recorded and the recording method for such information depend on a format of the user recording area. The user recording area contains a groove for tracking. There are provided format types of a groove format for a recording information only on the groove and a land-groove format for the recording information on both land and groove.

Page 3, paragraph 2 should read:

However, if the control information has been recorded wobblingly, it is difficult to wobble the groove in high speed and consequently, an amount of information which can be recorded decreases. To solve this problem, ~~it is thought to record~~ information is recorded by utilizing a pit format like the land-groove format.

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Pages 4-5, paragraph 3 should read:

Another ~~Other~~ object and further aspect of the present invention is to provide a recording and reproducing apparatus (4) for an optical information recording medium (1) including a pit recording area recorded with various control information by a prepit, and a user recording area (3) having a guide groove, wherein a track for the user recording area is formed in groove format, the recording and reproducing apparatus including decoding means (12) for decoding information from the optical information recording medium (1) by detecting a signal in a form of a tangential push-pull reproduced signal from the pit recording area (2), and detecting another signal in a form of an aggregated signal from the user recording area (3).

Page 5, paragraph 1 should read:

Another ~~Other~~ object and further aspect of the present invention is to provide a recording and reproducing apparatus (4) in which the decoding means (12) includes a waveform equalizing circuit (13) for obtaining a desirable partial response characteristic from the tangential push-pull reproduced signal.

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Page 5, paragraph 2 should read:

Another ~~Other~~ object and further aspect of the present invention is to provide a recording and reproducing apparatus (4) in which the decoding means (12) is a viterbi decoder.

Page 5, paragraph 3 should read:

Another ~~Other~~ object and further aspect of the present invention is to provide a recording and reproducing apparatus (4) in which a partial response polynomial equation for equalizing reproduced signal in the partial response characteristic is $1+D-D^2-D^3$.

Page 5, paragraph 4 should read:

Other objects ~~object~~ and further features of the present invention will be apparent from the following detailed description when read in conjunction with the accompanying drawings.

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Page 8, paragraph 2 should read:

As the control information is recorded in the pit recording area 2 by pre-pit and the user recording area 3 consists of a guide groove so that a large capacity of information can be recorded in the user recording area 3. The pit recording area 2 can be formed in the area other than the area contiguous to the center of the optical information recording medium 1.

Pages 8-9, paragraph 4 should read:

The light detector 11 has four areas defined as A, B, C and D in the direction of a tangential line of the track and in the tangential direction orthogonal to the tangential line. A ~~A~~ user information reproduced from the user recording area 3 is detected as an aggregated signal of signals a, b, c and d ($a+b+c+d$) which are outputted from each of the above four areas A, B, C and D. This is called an aggregated detecting method.

Page 10, paragraph 1 should read:

The output of reproduced signal has been detected by using the aggregated detecting method and the PP detecting method corresponding to phase depth of the pit and standardized spatial frequency. The shape of the pit is rectangular. The standardized spatial frequency is defined by the number of aperture NA, wavelength λ and linear velocity of the recording medium 1.

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Page 17, paragraph 1 should read:

According to an aspect of the present invention, there provided an optical information recording medium having a pit recording area with various control information recorded by a prepit, and having an a user recording area with guide groove wherein track has been formed in groove format therein, and the phase depth of the prepit and the groove is approximately the same, and the phase depth is less than or equal to $\lambda/10$ when the wavelength of reproducing light source is λ , so that a large capacity of information can be recorded in the user recording area.

Page 17, paragraph 2, should read:

According to another aspect of the present invention, there provided a recording/reproducing apparatus for an optical information recording medium having a pit recording area with various control information recorded by a prepit, and having a an user recording area with a guide groove wherein a track is formed in a groove format therein, including a decoding means for detecting a tangential push-pull reproduced signal from the pit recording area, and detecting an aggregated reproduced signal from the user recording area for decoding operation so that the reproduced signal can be obtained by a simple circuitry.